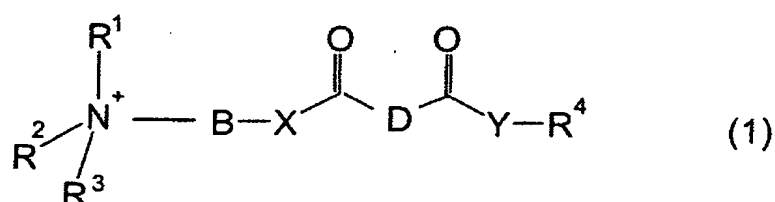


Abstract

Corrosion and gas hydrate inhibitors having improved water solubility and increased biodegradability

The invention thus provides the use of compounds of the formula (1)



where

R^1, R^2 are each independently C_1 - to C_{22} -alkyl, C_2 - to C_{22} -alkenyl, C_6 - to C_{30} -aryl or C_7 - to C_{30} -alkylaryl,

R^3 is C_1 - to C_{22} -alkyl, C_2 - to C_{22} -alkenyl, C_6 - to C_{30} -aryl or C_7 - to C_{30} -alkylaryl, $-\text{CHR}^5-\text{COO}^-$ or $-\text{O}^-$,

R^4 is M, hydrogen or an organic radical which optionally contains heteroatoms and has from 1 to 100 carbon atoms,

B is an optionally substituted C_1 - to C_{10} -alkylene group,

D is an ethylene group substituted by an organic radical having from 1 to 600 carbon atoms,

X, Y are each independently O or NR^6 ,

R^5, R^6 are each independently hydrogen, C_1 - to C_{22} -alkyl, C_2 - to C_{22} -alkenyl, C_6 - to C_{30} -aryl or C_7 - to C_{30} -alkylaryl, and

M is a cation

as corrosion and gas hydrate inhibitors, and also the compounds of formula 1.